

MARINER NEWS

AUG - 1 REC'D

OAKLAND, CALIF.
REC'D. ON ABOVE DATE

TO: Service Departments
FROM: Walter E. Kaelin, V.P. Engineering
DATE: July 26, 1977
SUBJECT: 1) V-108 A7 Oscillator Board
2) V-101 Schematic, Components Location

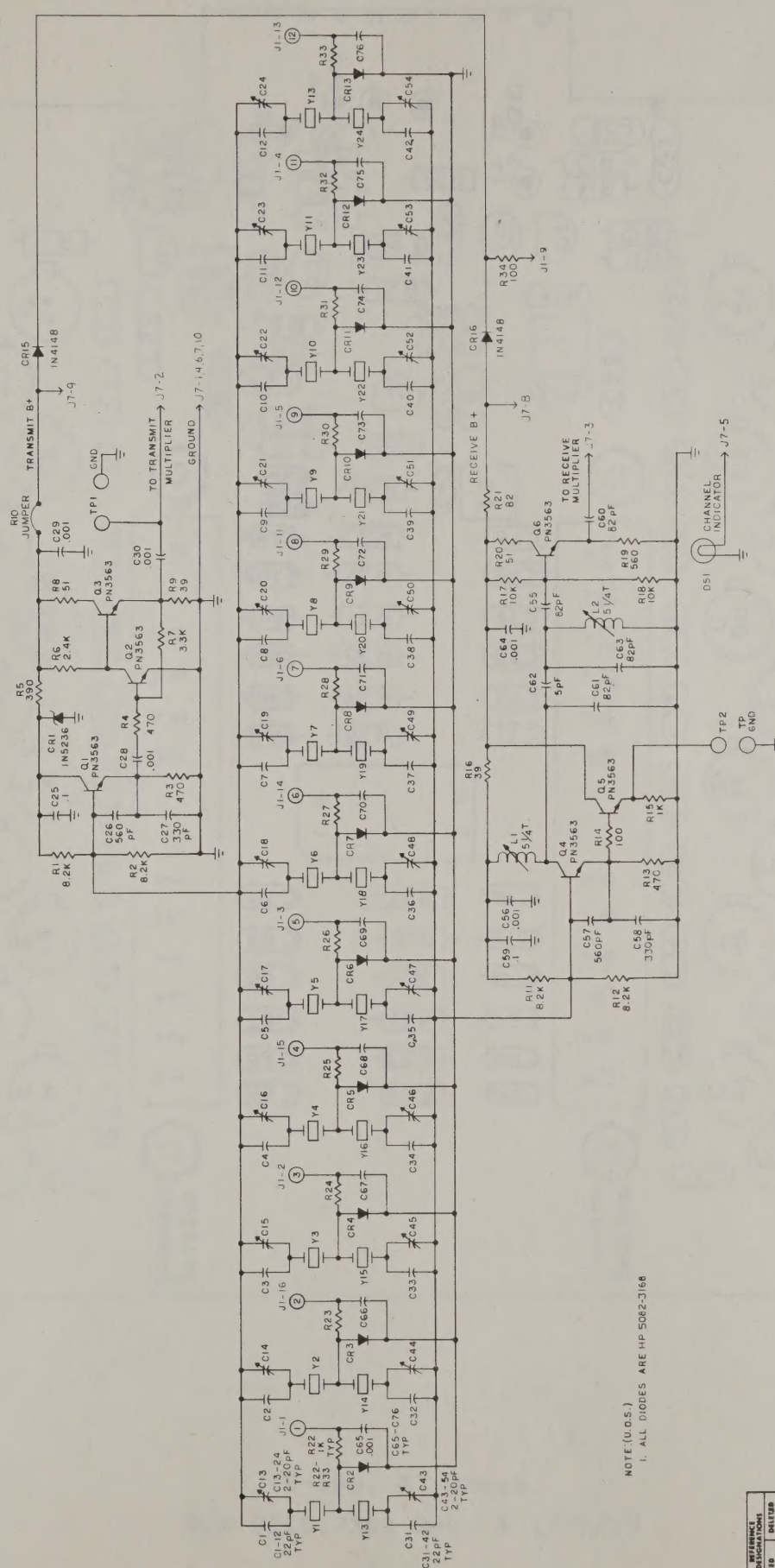
1) We recently changed the oscillator board of the V108 (and V107) transceiver from mechanical to diode channel switching. This results in improved operation as well as less effort required to rotate the switch. Enclosed is the new schematic and component location for servicing.

2) We still receive quite a few calls for schematics on the V101 handheld VHF transceiver. So many in fact, that we have reprinted the schematic and components location. A copy is attached for your service department files.

Service file

SYM	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
B	6-20-71	FLC41225	UJC		

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. THIS DRAWING IS THE PROPERTY OF INTECH.



NOTE (U.S.):
1. ALL DIODES ARE MP 5042-3168

REFERENCE	DESCRIPTION
USED	DALLAS
RI-34	RI-34
CI-76	CI-76
CR1-16	CR1-16
Y1-24	Y1-24
LI-2	LI-2
Q1-6	Q1-6

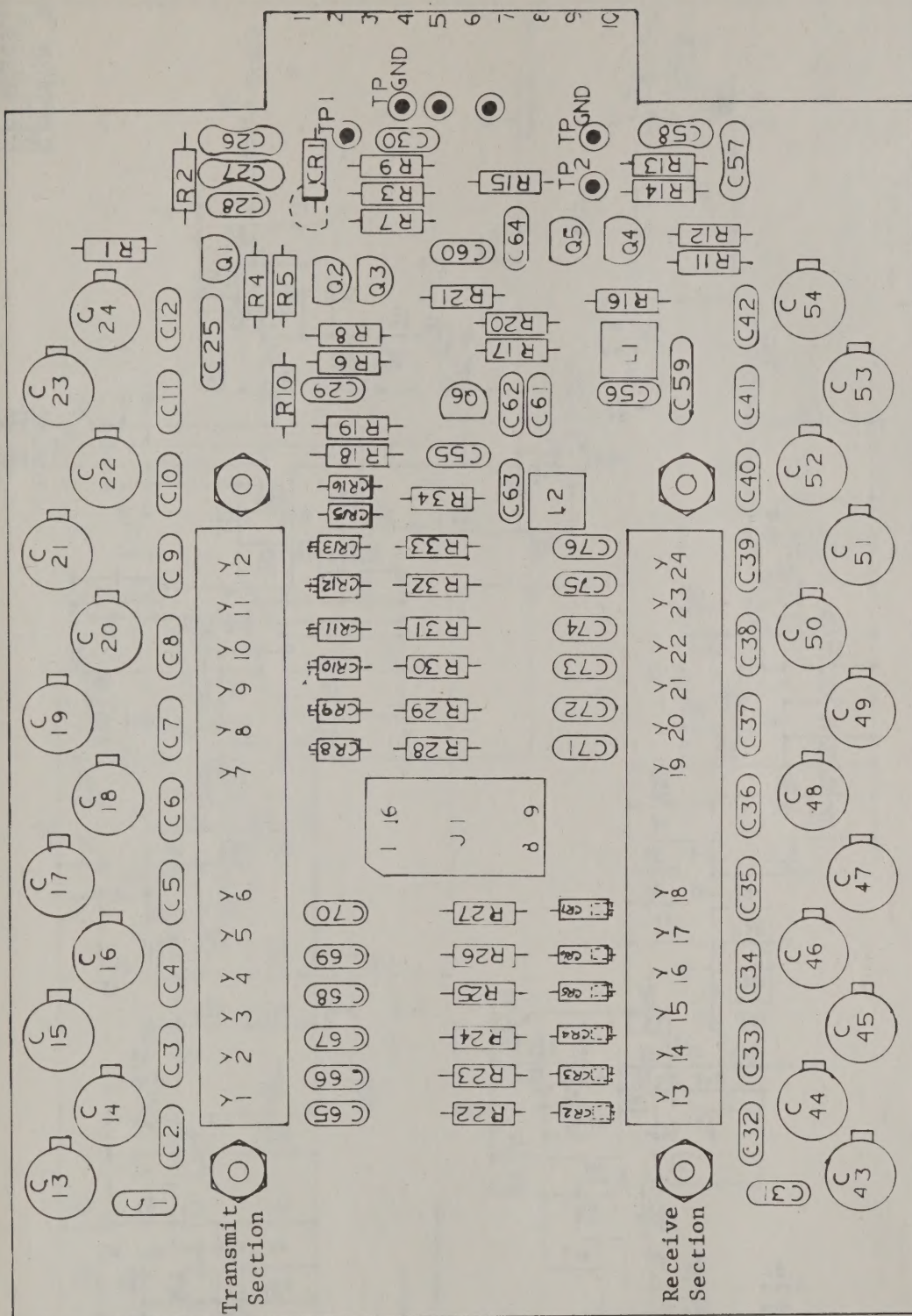
Intech Incorporated
Santa Clara, California 95050

V108 A-7
OSCILLATOR SCHEMATIC

DATE: 6/20/71
BY: UJC
CHECKED: [blank]
APPROVED: [blank]

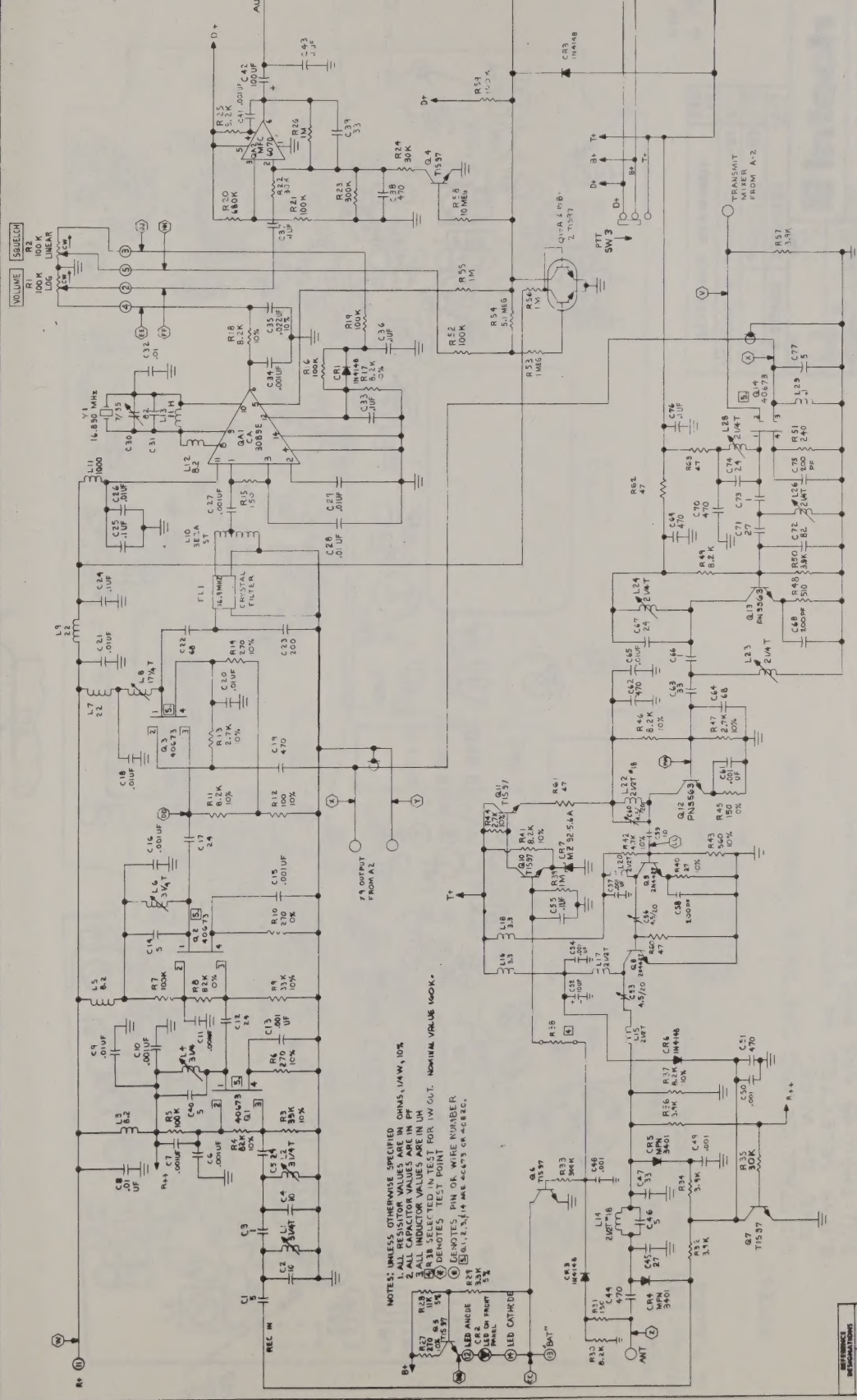
SCALE: 1" = 1" OP

SHEET 1 OF 1



V-108, A7 Board
P/N 9115 7308 Rev. A 7/21/77

REV	DATE	DESCRIPTION
1	1/15/73	ORIGINAL CIRCUIT
2	8/19/73	REVISED TO 1.4.8
3	10/1/73	REVISED TO 1.4.8
4	10/1/73	REVISED TO 1.4.8



NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL INDUCTOR VALUES ARE IN μ H
 2. ALL CAPACITOR VALUES ARE IN PF
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 100. ALL CAPACITOR VALUES ARE IN PF

Transceiver Board, Al Model V-101 (Front Bd.)

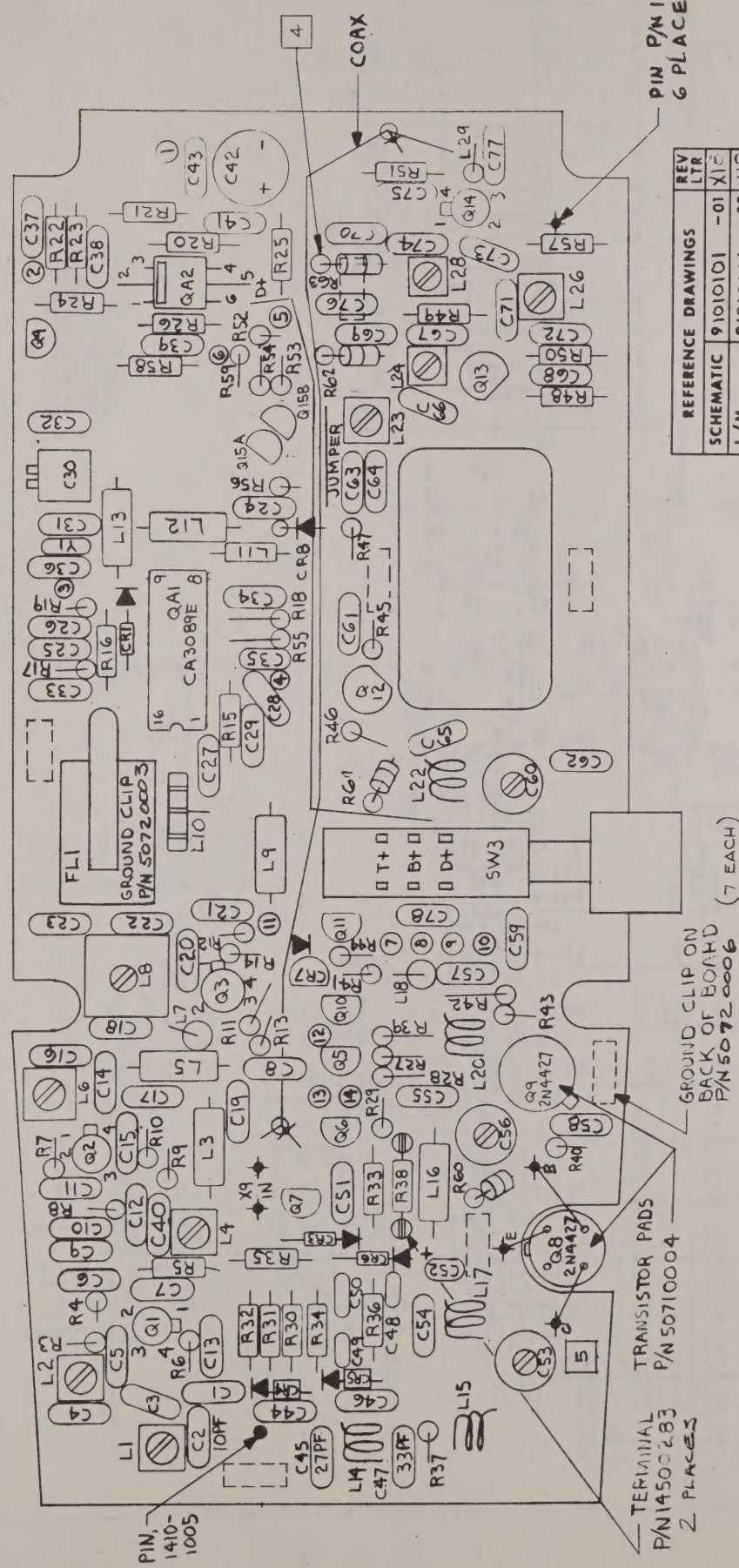
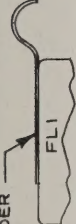
FOR REV A17 F. 1.4.8

Intech INTENCO INCORPORATED SANTA CLARA CALIFORNIA, 95050	
Part No. V101-22 Rev. 1.4.8 Date 8-1-72 Scale 1"=10"	Sheet 1 of 1 Scale NONE

REFERENCE	VALUE
R1 - R2	100K
C1 - C2	100K
C3 - C4	100K
C5 - C6	100K
C7 - C8	100K
C9 - C10	100K
C11 - C12	100K
C13 - C14	100K
C15 - C16	100K
C17 - C18	100K
C19 - C20	100K
C21 - C22	100K
C23 - C24	100K
C25 - C26	100K
C27 - C28	100K
C29 - C30	100K
C31 - C32	100K
C33 - C34	100K
C35 - C36	100K
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C87 - C88	100K
C89 - C90	100K
C91 - C92	100K
C93 - C94	100K
C95 - C96	100K
C97 - C98	100K
C99 - C100	100K

A	10-2-74	ECO 537	2
B	10-25-74	ECO #549	

SOLDER



PIN P/N14101014
6 PLACES

REFERENCE	DRAWINGS	REV	LTR
SCHEMATIC	91010101	-01	X1C
L/M	91010101	-03	X1B
P C BOARD	23010101		X17

intech		INTECH INCORPORATED SANTA CLARA CALIFORNIA, 95050	
V101, A1		Components Location	
DATE	1-13-73	DWG CODE IDENT NO	NUMBER
CHECKED	1-20-73	B	33967
DATE	1-26-73	SCALE	2/1
TITLE		SHEET 1 OF 1	

- NOTES:
1. INSTALL C8 AND CR8 OVER COAXIAL LINE AND D+ WIRE.
 2. R38 SELECTED IN TEST.
 3. ① THRU ④ ARE PINS (P/N 14310018). SEE SCHEMATIC FOR SIGNAL NAMES.
 4. R60, G1, G2, G3 EACH HAVE 2 FERRITE BEADS ON LEADS. BEADS TO BE PLACED ON LOAD SIDE OF B+.
 5. TRIM PINS P/N 1410 1005 TO 0.45 AFTER Q8. IS INSTALLED

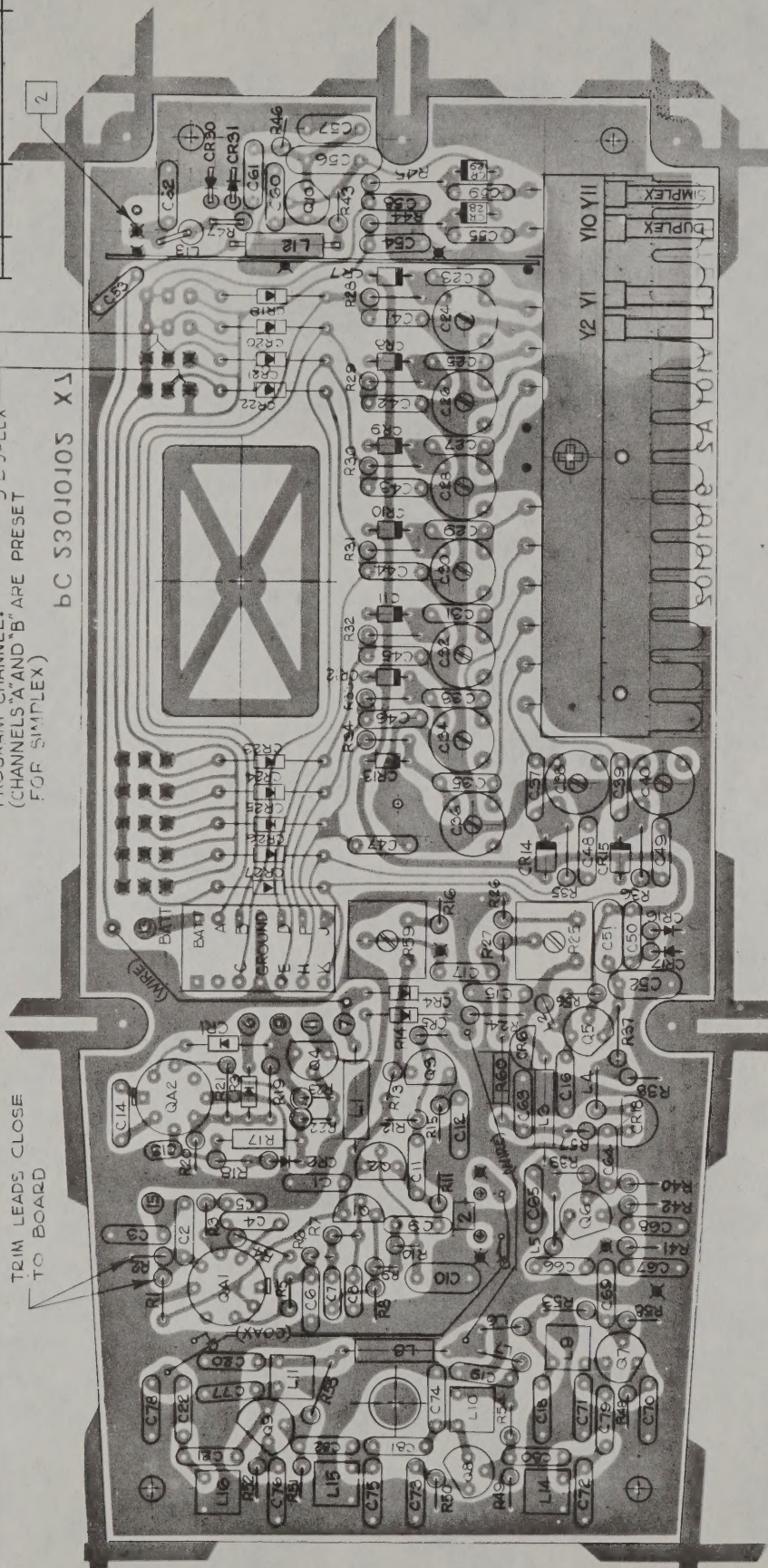
REV	DATE	DESCRIPTION
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371	8-19-70	0568
372	8-19-70	0569
373	8-19-7	

REV LTR	DATE	DESCRIPTION	CHK
A	10-3-76	ECO # 1095 RS	AW

INSTALL JUMPER PLUG TO
PROGRAM CHANNEL.
(CHANNELS "A" AND "B" ARE PRESET
FOR SIMPLEX)

BC S30J0J0S X1

TRIM LEADS, CLOSE
TO BOARD



SEE SHEET 1 FOR HARDWARE INSTALLATION DETAILS

REFERENCE	DRAWINGS	REV LTR
SCHEMATIC	91010102	-01 X 1
L/M	91010102	-03 X 2
P C BOARD	23010102	X7

NOTES (U.C.C.)
1. ① ⑤ ⑦ ⑨ ⑪ ⑬ ARE PINS.
FOR SIGNAL NAMES
2. TRIM JUMPER TERMINALS
SO THAT THEY DO NOT SHORT
TO SHIELD ON THE BACK
COVER

intech INTECH INCORPORATED SANTA CLARA CALIFORNIA, 95050	
Components Location V-101, A2 Board	
TITLE 3-10-73	DATE 3-10-73
CHECKED J. D. E.	DRAWN W. H. H.
APPROVED J. D. E.	DATE 3-20-73
DWG CODE IDENT NO B 33967	REV A
SCALE 2:1	SHEET / OF 1 / 1

